

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078934.D
 Acq On : 17 Aug 2023 18:42
 Operator : JC\MD
 Sample : 04027-02DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:34:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

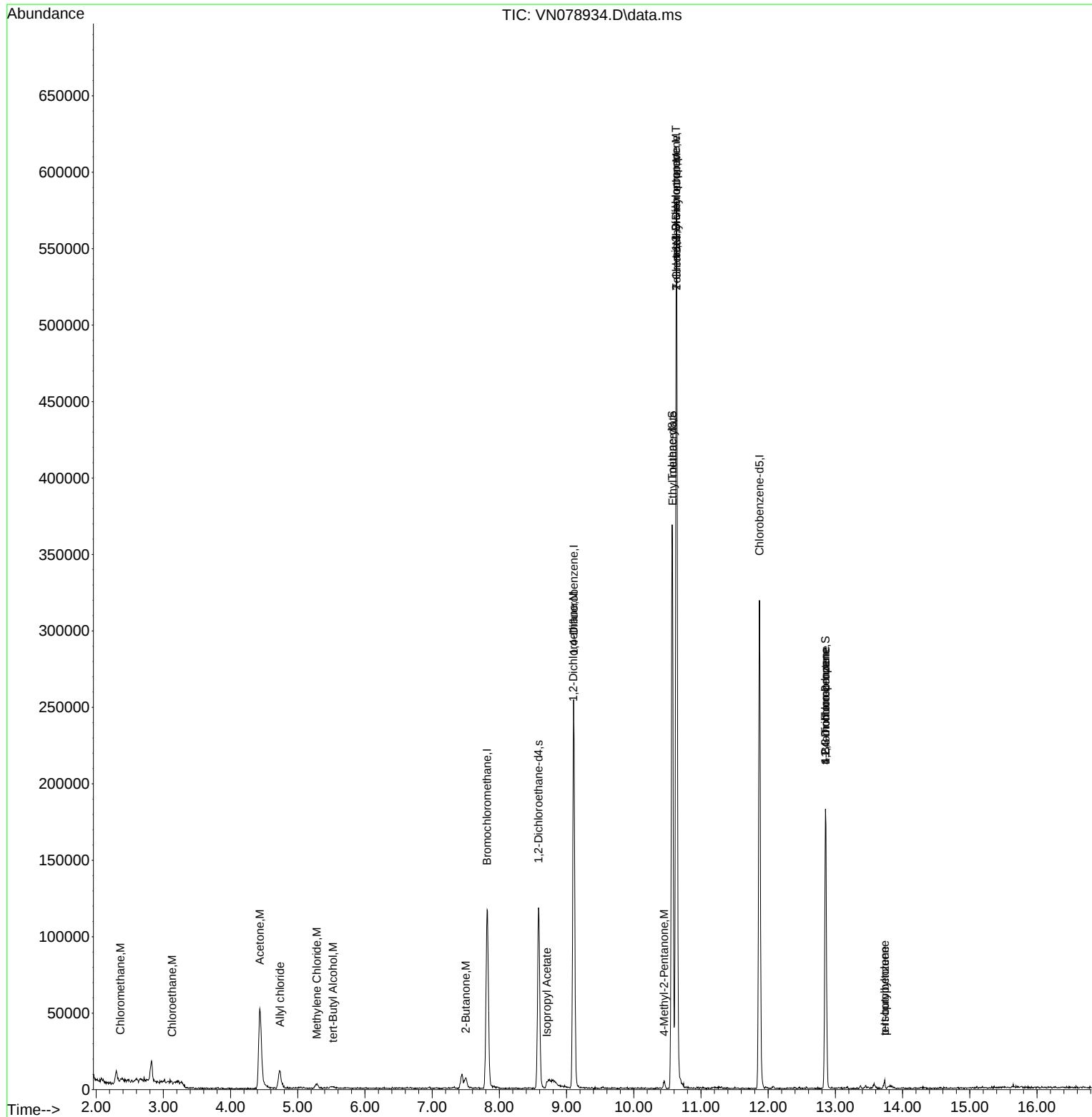
Internal Standards						
1) Bromochloromethane	7.818	128	37806	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	204509	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	177326	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	95154	31.067	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.567%	
60) 4-Bromofluorobenzene	12.853	95	59557	23.024	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 76.733%	
63) Toluene-d8	10.571	98	252849	30.534	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.767%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	629	0.220	ug/l #	44
6) Chloroethane	3.130	64	647	0.352	ug/l #	44
15) Acetone	4.436	58	29457	77.826	ug/l	99
17) Allyl chloride	4.736	41	1125	0.307	ug/l	69
18) Methylene Chloride	5.283	84	1978	0.826	ug/l #	59
23) tert-Butyl Alcohol	5.524	59	692	1.504	ug/l #	100
30) 2-Butanone	7.500	43	11230	6.166	ug/l #	96
36) 1,2-Dichloroethane	9.100	62	8429	2.414	ug/l #	73
44) Isopropyl Acetate	8.706	43	1818	0.292	ug/l #	52
48) t-1,3-Dichloropropene	10.629	75	3434	0.952	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	3434	0.888	ug/l #	1
51) Ethyl methacrylate	10.577	69	998	0.283	ug/l	91
55) 2-Chloroethyl vinyl ether	10.635	63	29388	18.059	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	3523	1.001	ug/l #	85
62) Toluene	10.635	91	424117	43.809	ug/l	98
72) 1,2,3-Trichloropropane	12.853	75	33746	12.165	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	33746	32.734	ug/l #	3
79) tert-butylbenzene	13.735	119	2780	0.460	ug/l	54
82) p-Isopropyltoluene	13.735	119	2780	0.427	ug/l	92

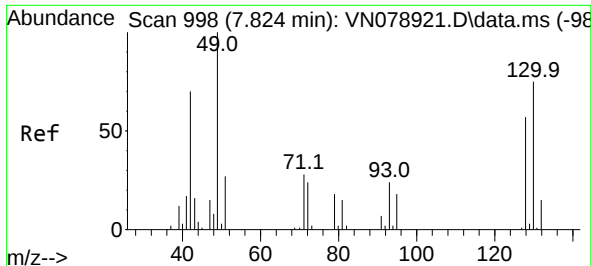
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
Data File : VN078934.D
Acq On : 17 Aug 2023 18:42
Operator : JC\MD
Sample : 04027-02DL 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

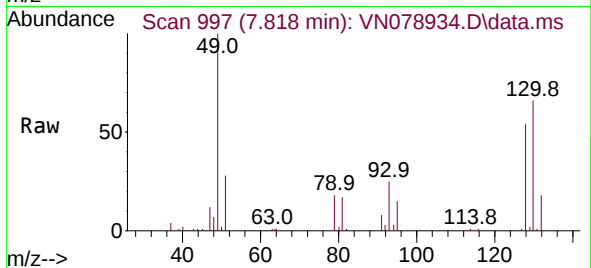
Quant Time: Aug 18 05:34:43 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 18 05:21:14 2023
Response via : Initial Calibration



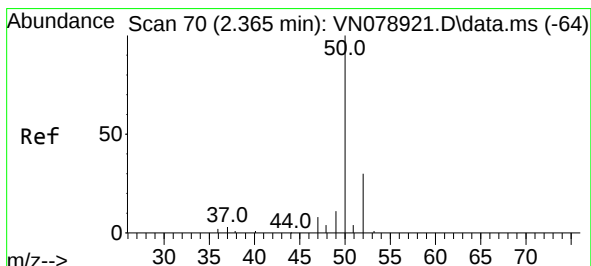
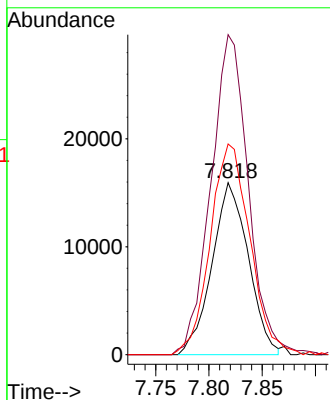
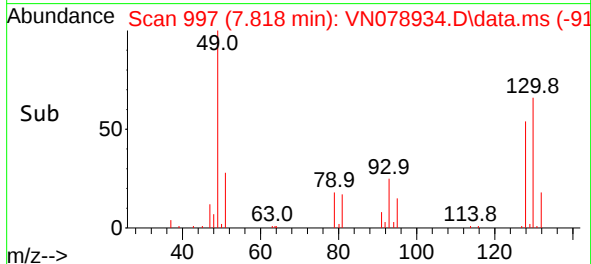


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

Instrument :
MSVOA_N
ClientSampleId :

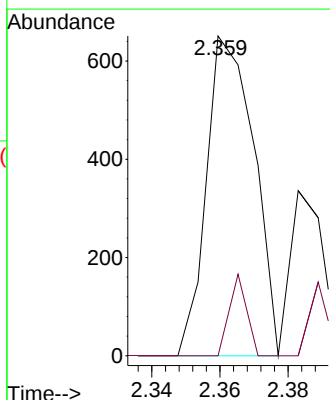
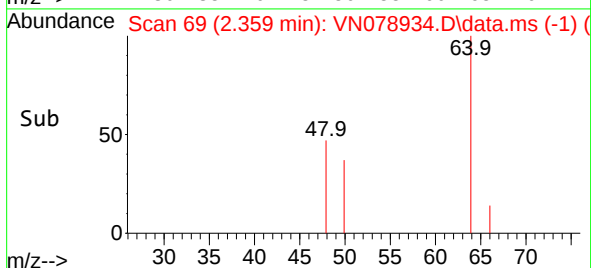
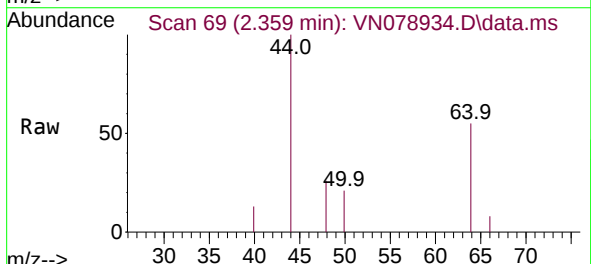


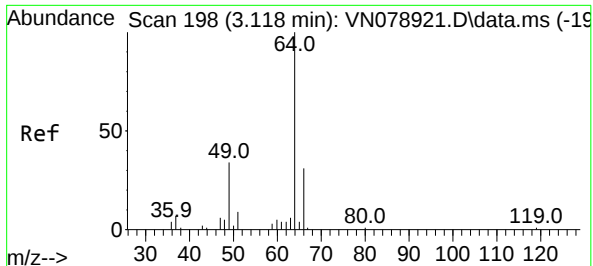
Tgt Ion:128 Resp: 37806
Ion Ratio Lower Upper
128 100
49 191.8 0.0 481.8
130 133.7 0.0 320.5



#3
Chloromethane
Concen: 0.220 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

Tgt Ion: 50 Resp: 629
Ion Ratio Lower Upper
50 100
52 0.0 24.2 36.4#

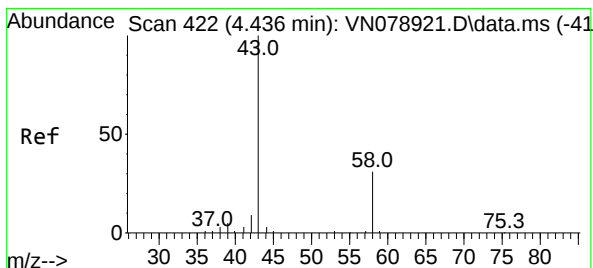
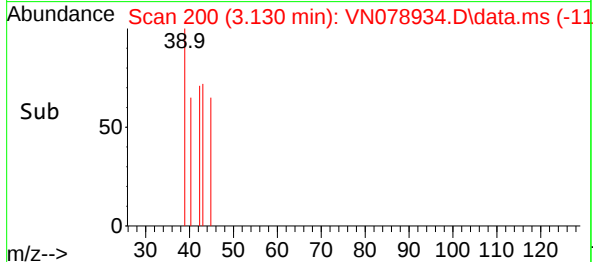
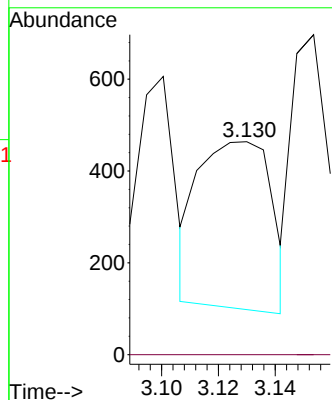
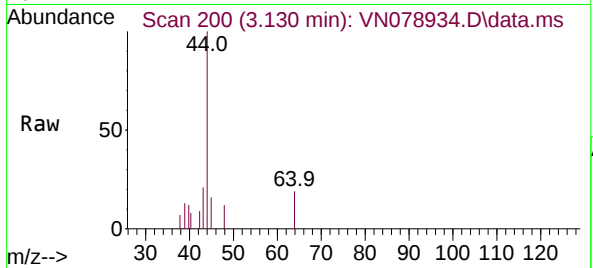




#6
Chloroethane
Concen: 0.352 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

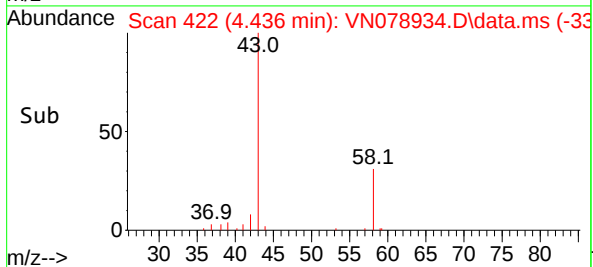
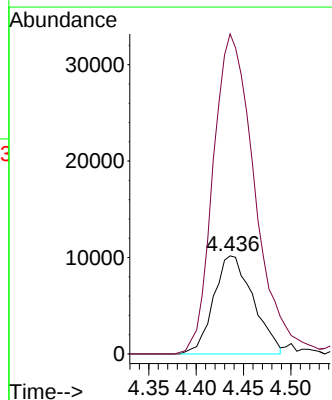
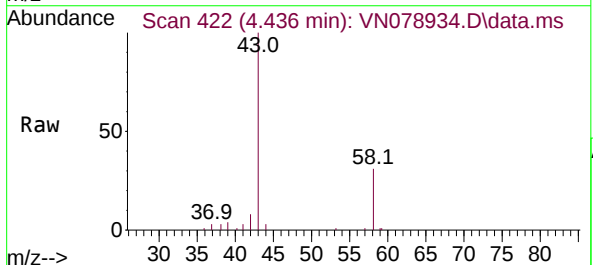
Instrument :
MSVOA_N
ClientSampleId :

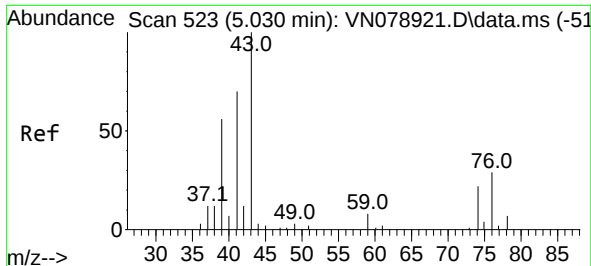
Tgt Ion: 64 Resp: 647
Ion Ratio Lower Upper
64 100
66 0.0 24.9 37.3#



#15
Acetone
Concen: 77.826 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.000 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

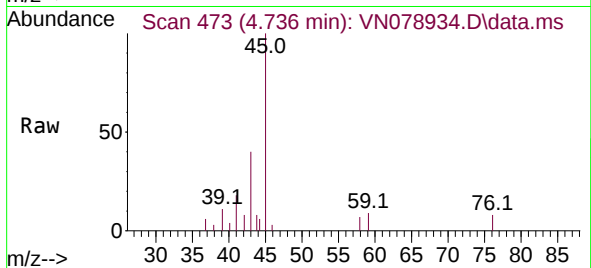
Tgt Ion: 58 Resp: 29457
Ion Ratio Lower Upper
58 100
43 324.5 260.6 390.8



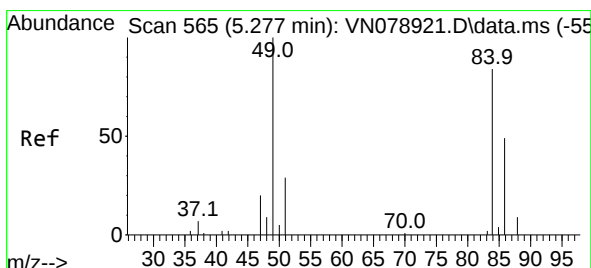
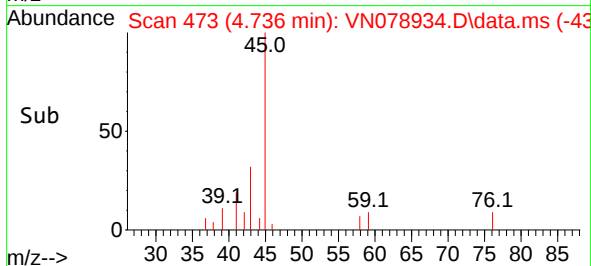
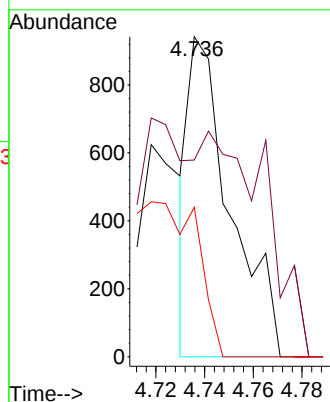


#17
 Allyl chloride
 Concen: 0.307 ug/l
 RT: 4.736 min Scan# 41
 Delta R.T. -0.294 min
 Lab File: VN078934.D
 Acq: 17 Aug 2023 18:42

Instrument :
 MSVOA_N
 ClientSampleId :

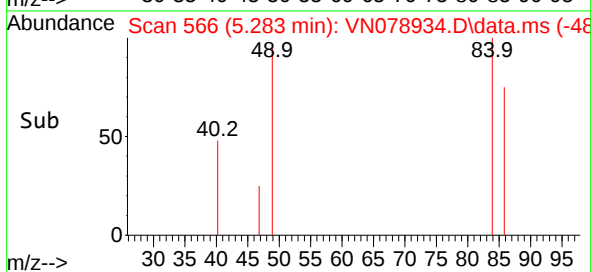
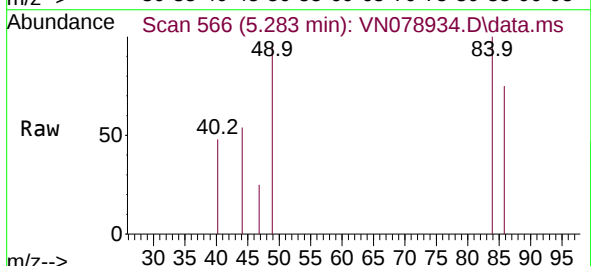
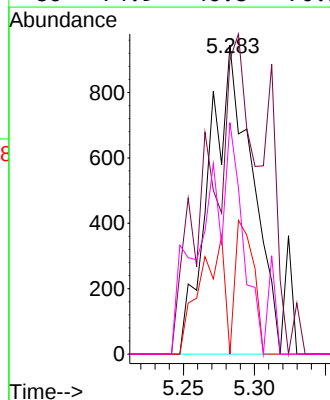


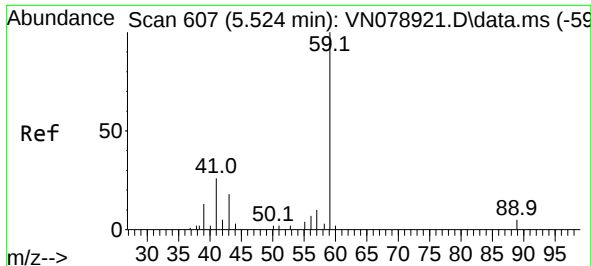
Tgt Ion:	41	Resp:	1125
Ion	Ratio	Lower	Upper
41	100		
39	43.1	36.9	110.7
76	46.7	17.3	51.9



#18
 Methylene Chloride
 Concen: 0.826 ug/l
 RT: 5.283 min Scan# 566
 Delta R.T. 0.006 min
 Lab File: VN078934.D
 Acq: 17 Aug 2023 18:42

Tgt Ion:	84	Resp:	1978
Ion	Ratio	Lower	Upper
84	100		
49	71.4	95.8	143.6#
51	0.0	28.6	43.0#
86	74.9	46.8	70.2#

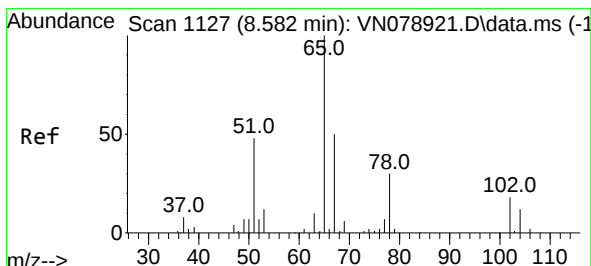
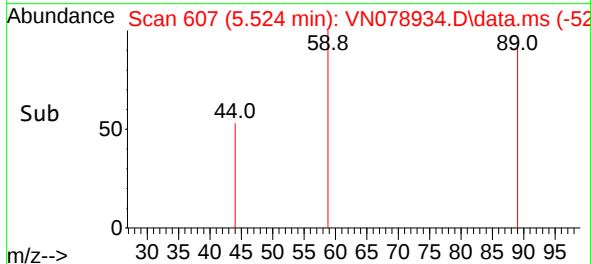
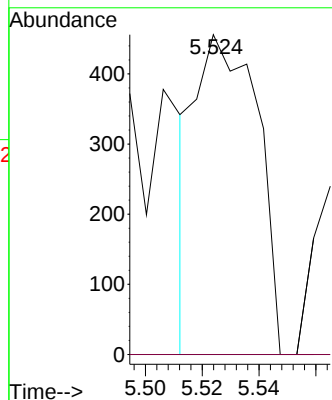
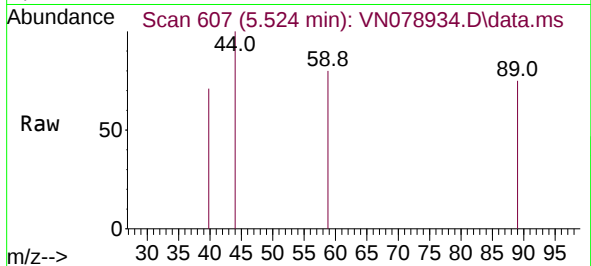




#23
tert-Butyl Alcohol
Concen: 1.504 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

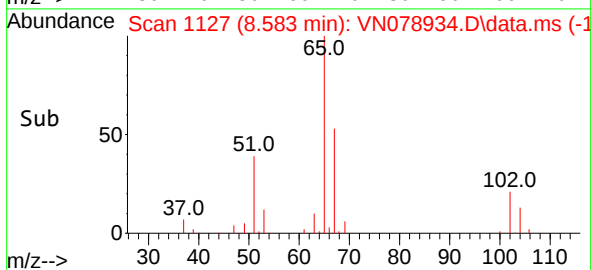
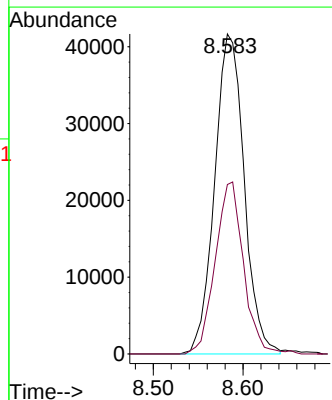
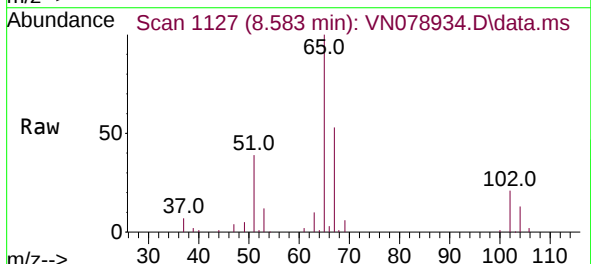
Instrument :
MSVOA_N
ClientSampleId :

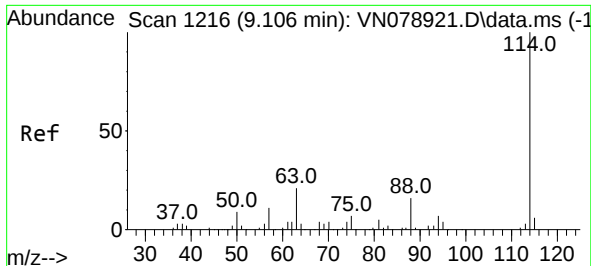
Tgt Ion: 59 Resp: 692
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 31.067 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

Tgt Ion: 65 Resp: 95154
Ion Ratio Lower Upper
65 100
67 51.4 40.7 61.1

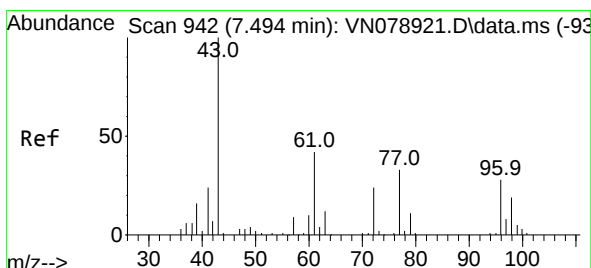
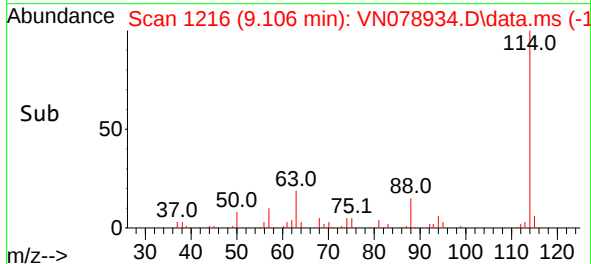
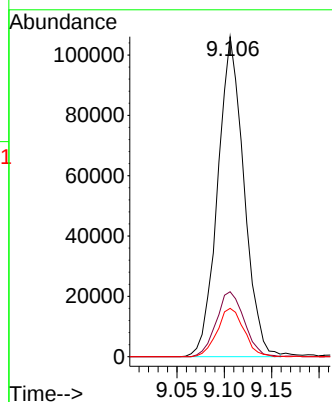
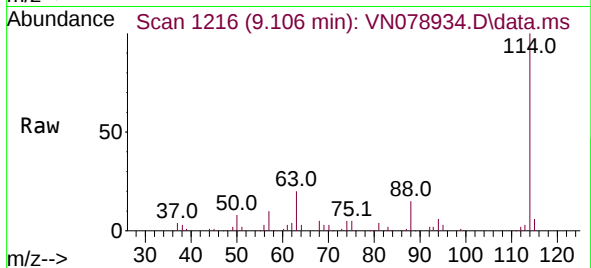




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

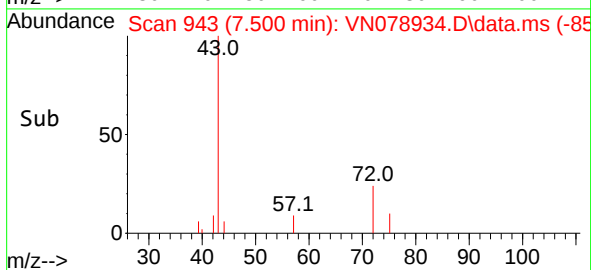
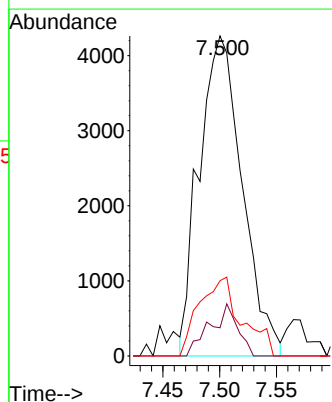
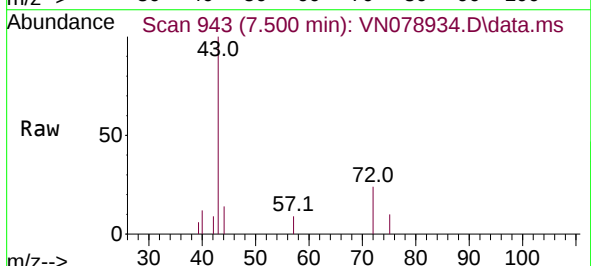
Instrument :
MSVOA_N
ClientSampleId :

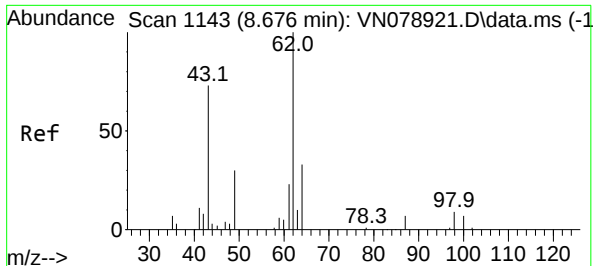
Tgt Ion:114 Resp: 204509
Ion Ratio Lower Upper
114 100
63 21.6 17.4 26.2
88 15.4 12.0 18.0



#30
2-Butanone
Concen: 6.166 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

Tgt Ion: 43 Resp: 11230
Ion Ratio Lower Upper
43 100
57 5.3 6.2 9.4#
72 23.1 19.4 29.2





#36

1,2-Dichloroethane

Concen: 2.414 ug/l

RT: 9.100 min Scan# 1143

Delta R.T. 0.424 min

Lab File: VN078934.D

Acq: 17 Aug 2023 18:42

Instrument :

MSVOA_N

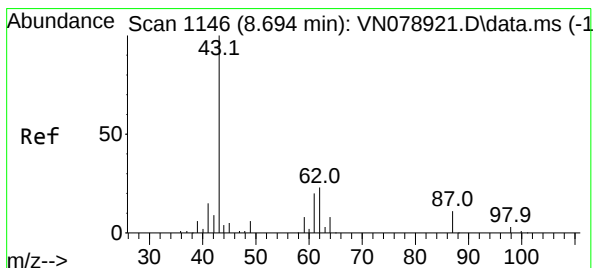
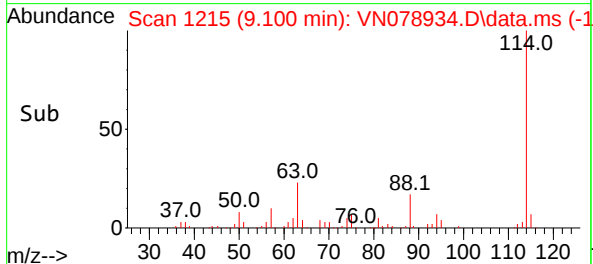
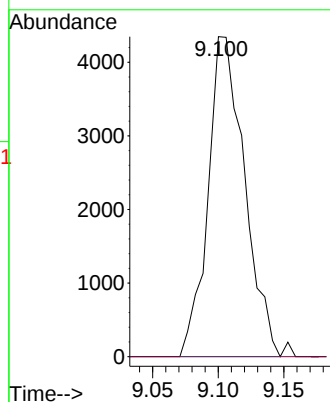
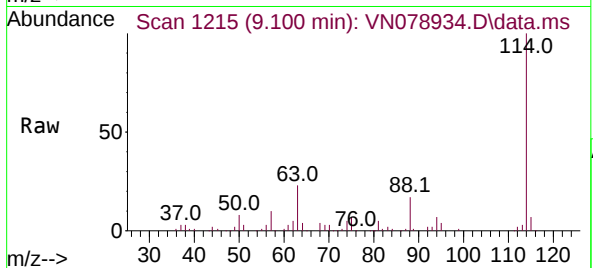
ClientSampleId :

Tgt Ion: 62 Resp: 8429

Ion Ratio Lower Upper

62 100

98 0.0 8.1 12.1#



#44

Isopropyl Acetate

Concen: 0.292 ug/l

RT: 8.706 min Scan# 1148

Delta R.T. 0.012 min

Lab File: VN078934.D

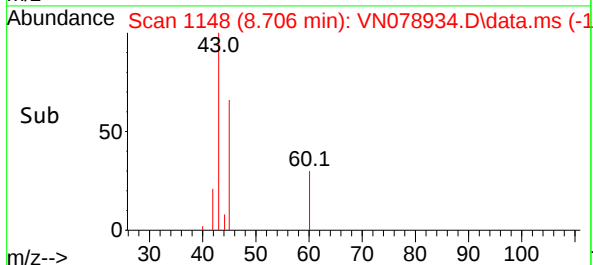
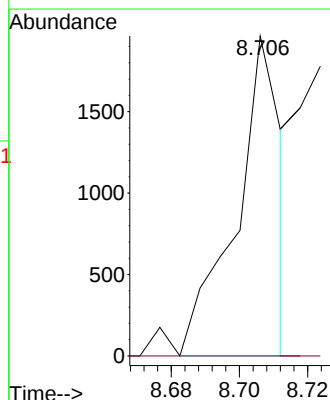
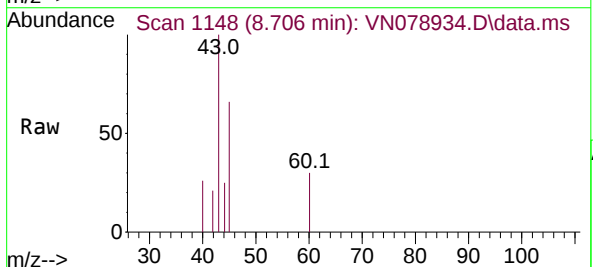
Acq: 17 Aug 2023 18:42

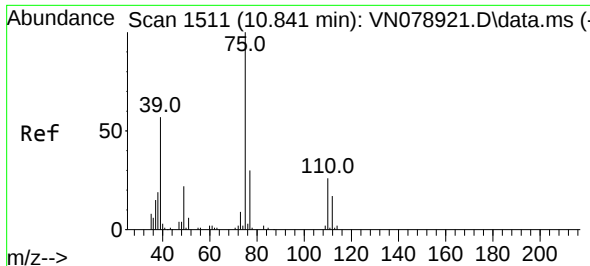
Tgt Ion: 43 Resp: 1818

Ion Ratio Lower Upper

43 100

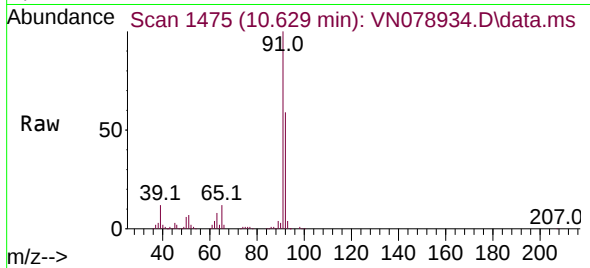
61 0.0 19.0 28.4#



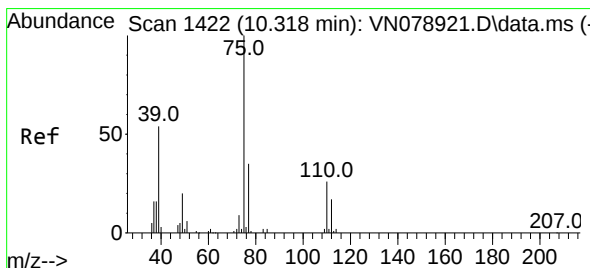
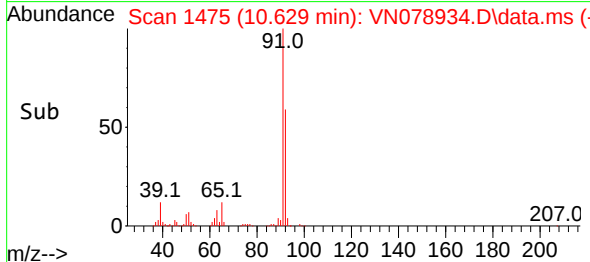
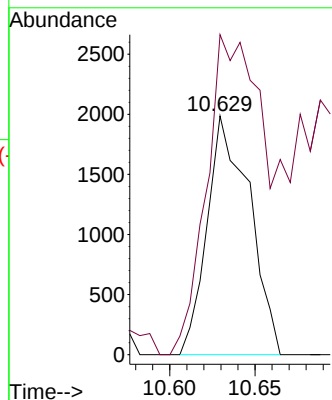


#48
 t-1,3-Dichloropropene
 Concen: 0.952 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. -0.212 min
 Lab File: VN078934.D
 Acq: 17 Aug 2023 18:42

Instrument :
 MSVOA_N
 ClientSampleId :

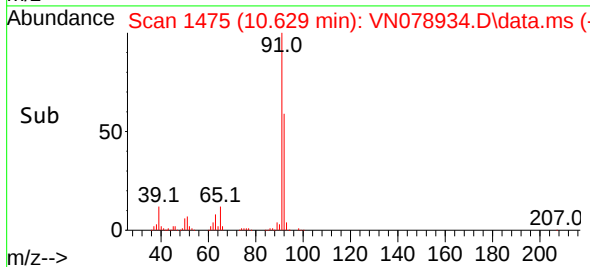
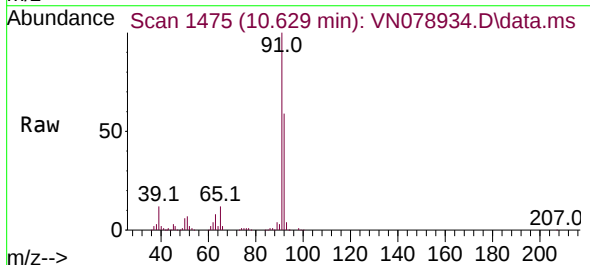
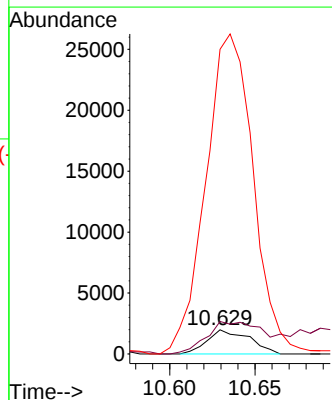


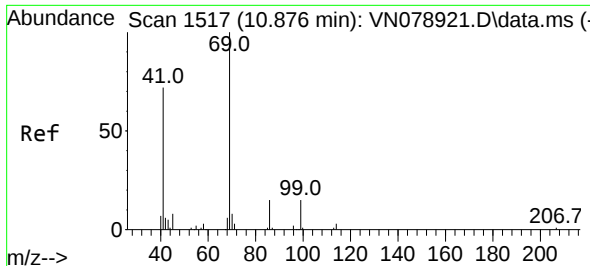
Tgt Ion: 75 Resp: 3434
 Ion Ratio Lower Upper
 75 100
 77 126.3 23.7 35.5#



#49
 cis-1,3-Dichloropropene
 Concen: 0.888 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. 0.312 min
 Lab File: VN078934.D
 Acq: 17 Aug 2023 18:42

Tgt Ion: 75 Resp: 3434
 Ion Ratio Lower Upper
 75 100
 77 126.3 27.8 41.8#
 39 1167.6 43.5 65.3#

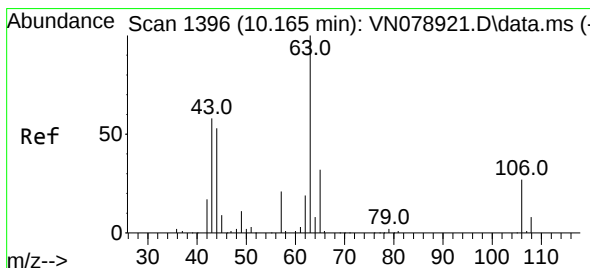
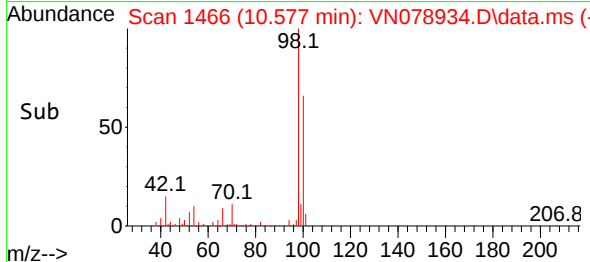
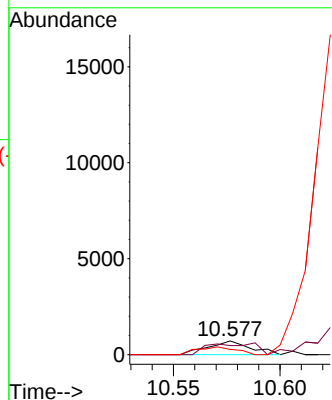
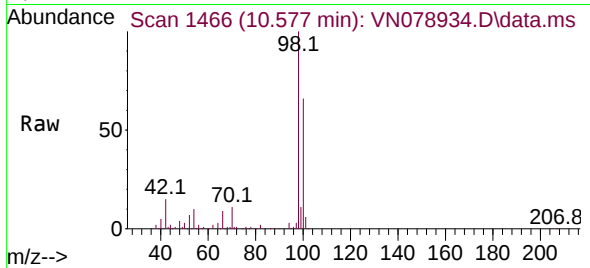




#51
Ethyl methacrylate
Concen: 0.283 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. -0.300 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

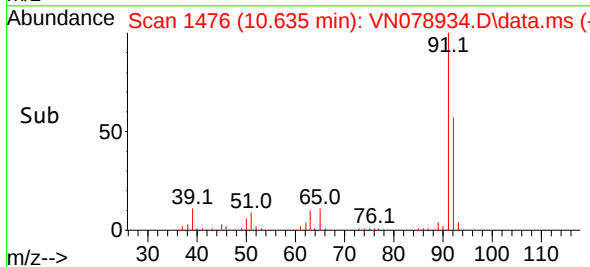
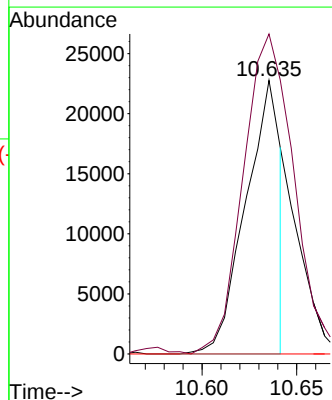
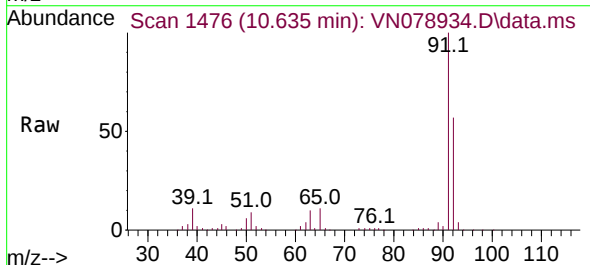
Instrument :
MSVOA_N
ClientSampleId :

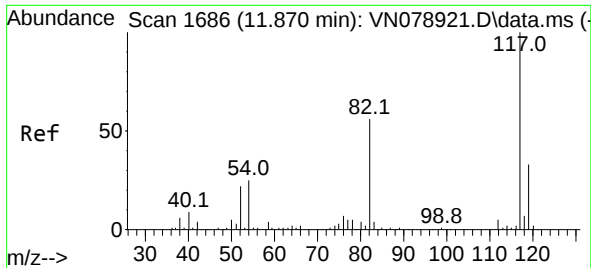
Tgt Ion: 69 Resp: 998
Ion Ratio Lower Upper
69 100
41 66.4 35.9 107.8
39 39.1 23.5 70.5



#55
2-Chloroethyl vinyl ether
Concen: 18.059 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.471 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

Tgt Ion: 63 Resp: 29388
Ion Ratio Lower Upper
63 100
65 127.5 25.4 38.2#
106 0.0 22.3 33.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078934.D

Acq: 17 Aug 2023 18:42

Instrument :

MSVOA_N

ClientSampleId :

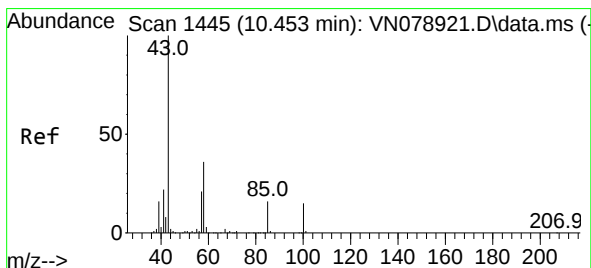
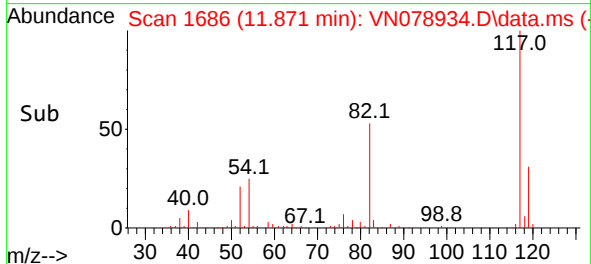
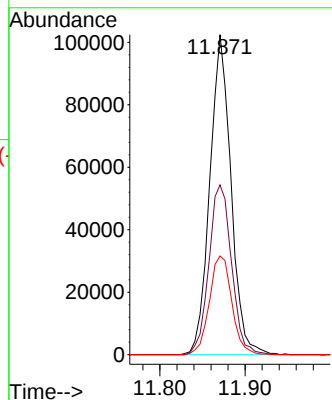
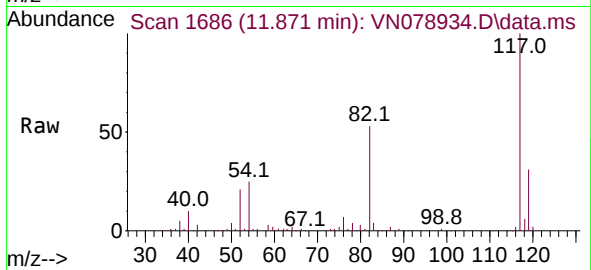
Tgt Ion:117 Resp: 177326

Ion Ratio Lower Upper

117 100

82 56.7 43.4 65.0

119 32.7 25.5 38.3



#58

4-Methyl-2-Pentanone

Concen: 1.001 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.000 min

Lab File: VN078934.D

Acq: 17 Aug 2023 18:42

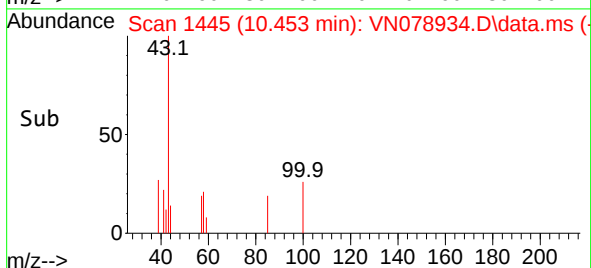
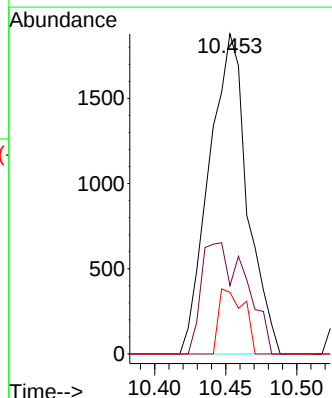
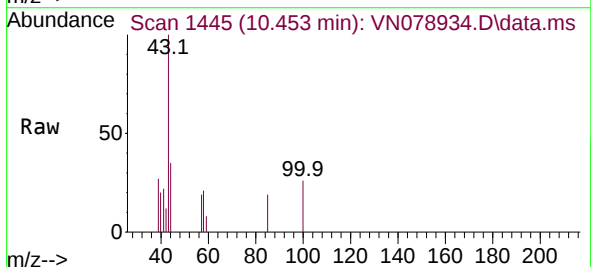
Tgt Ion: 43 Resp: 3523

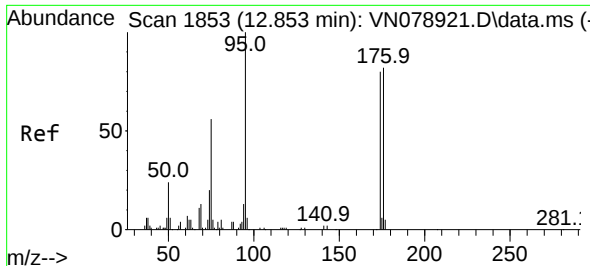
Ion Ratio Lower Upper

43 100

58 25.1 28.8 43.2#

85 13.3 12.7 19.1

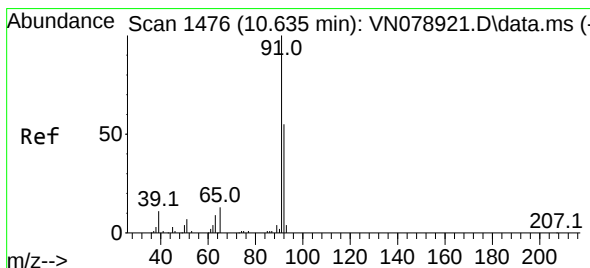
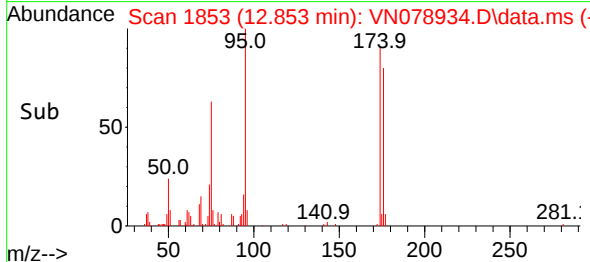
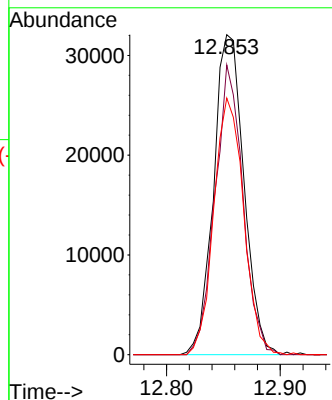
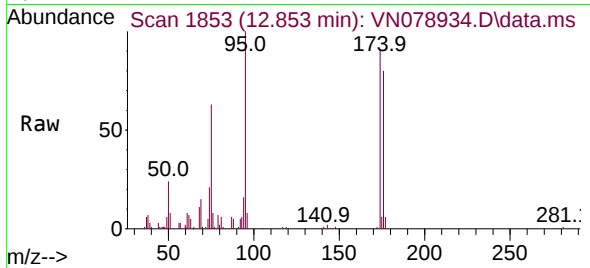




#60
4-Bromofluorobenzene
Concen: 23.024 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

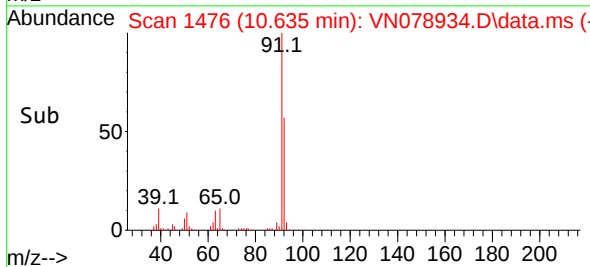
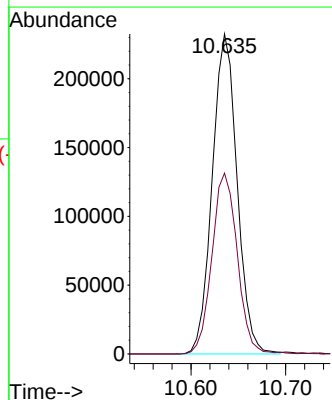
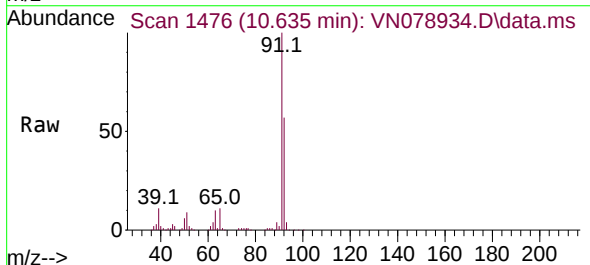
Instrument :
MSVOA_N
ClientSampleId :

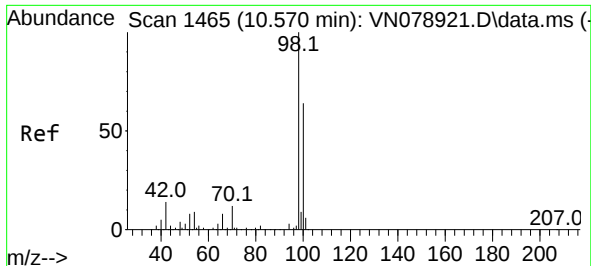
Tgt Ion: 95 Resp: 59557
Ion Ratio Lower Upper
95 100
174 83.0 64.8 97.2
176 78.7 63.0 94.6



#62
Toluene
Concen: 43.809 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

Tgt Ion: 91 Resp: 424117
Ion Ratio Lower Upper
91 100
92 57.4 44.7 67.1

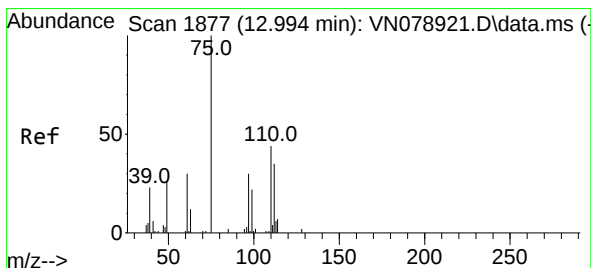
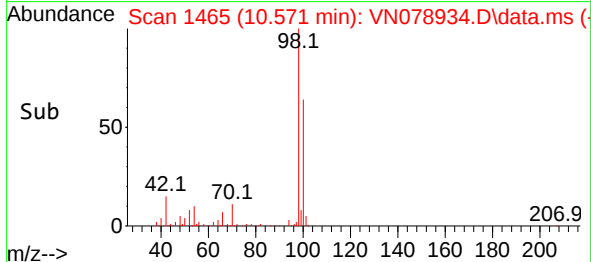
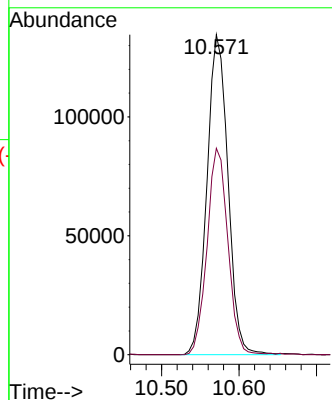
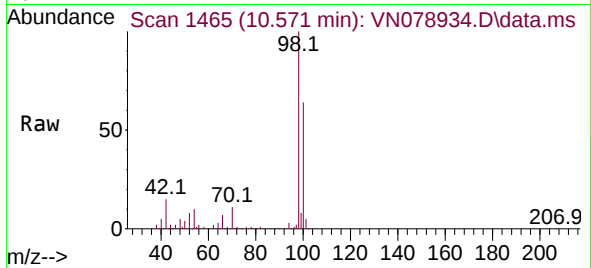




#63
Toluene-d8
Concen: 30.534 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

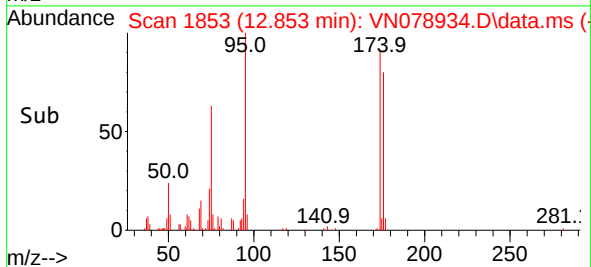
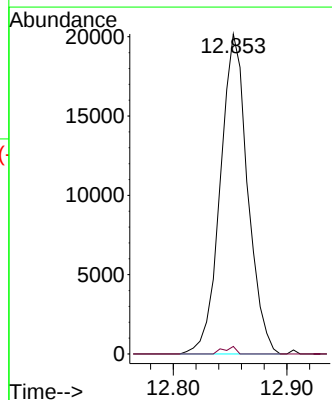
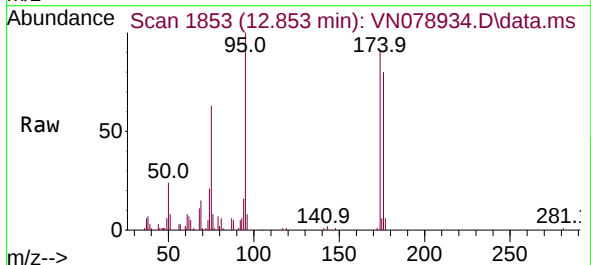
Instrument :
MSVOA_N
ClientSampleId :

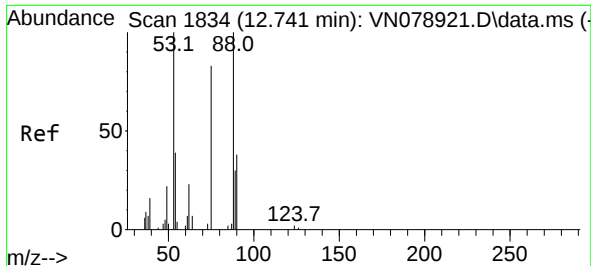
Tgt Ion: 98 Resp: 252849
Ion Ratio Lower Upper
98 100
100 63.8 51.1 76.7



#72
1,2,3-Trichloropropane
Concen: 12.165 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN078934.D
Acq: 17 Aug 2023 18:42

Tgt Ion: 75 Resp: 33746
Ion Ratio Lower Upper
75 100
77 1.1 0.0 367.4





#77

t-1,4-Dichloro-2-butene

Concen: 32.734 ug/l

RT: 12.853 min Scan# 1

Delta R.T. 0.112 min

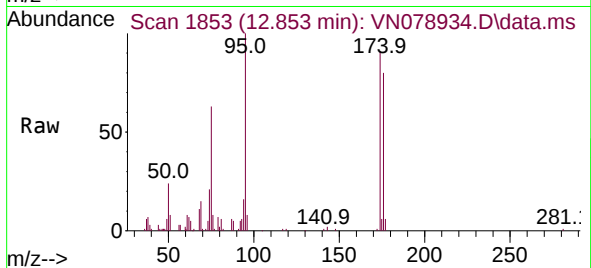
Lab File: VN078934.D

Acq: 17 Aug 2023 18:42

Instrument :

MSVOA_N

ClientSampleId :



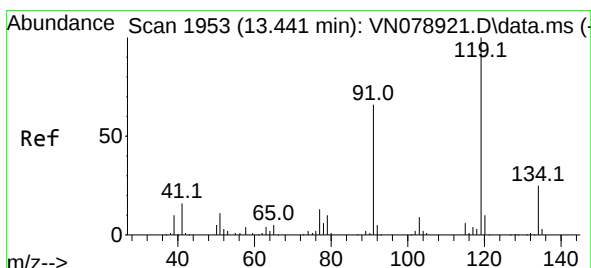
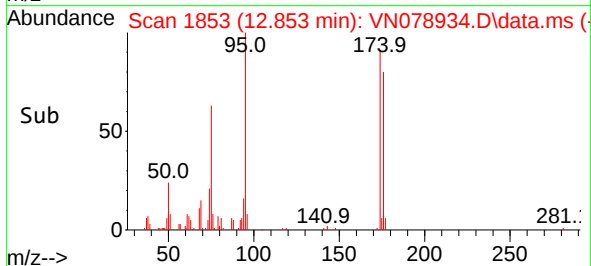
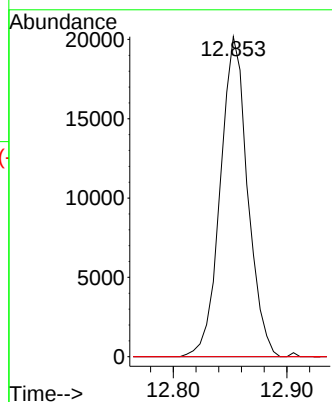
Tgt Ion: 75 Resp: 33746

Ion Ratio Lower Upper

75 100

53 0.0 60.1 180.3#

89 0.0 22.9 68.8#



#79

tert-butylbenzene

Concen: 0.460 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.294 min

Lab File: VN078934.D

Acq: 17 Aug 2023 18:42

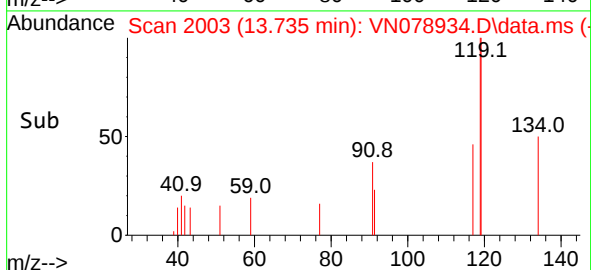
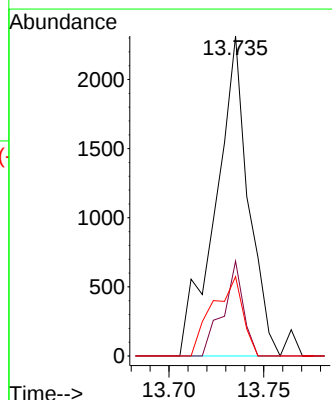
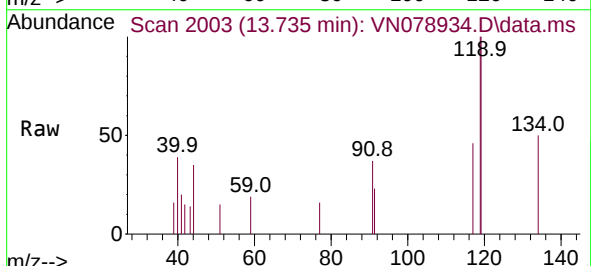
Tgt Ion: 119 Resp: 2780

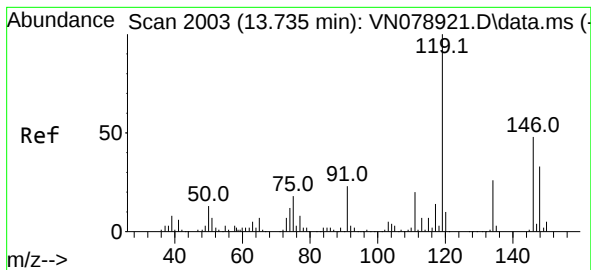
Ion Ratio Lower Upper

119 100

91 18.4 0.0 135.6

134 23.0 0.0 51.4





#82

p-Isopropyltoluene

Concen: 0.427 ug/l

RT: 13.735 min Scan# 20

Delta R.T. 0.000 min

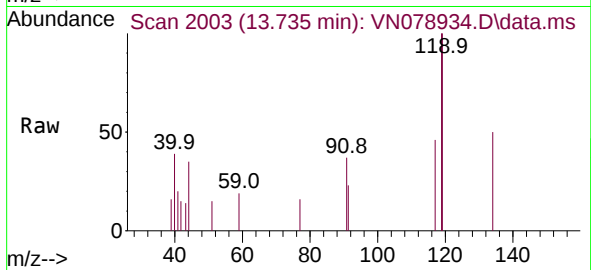
Lab File: VN078934.D

Acq: 17 Aug 2023 18:42

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:119 Resp: 2780

Ion Ratio Lower Upper

119 100

134 23.0 0.0 52.4

91 18.4 0.0 47.4

